

IN THE CLAIMS:

Claims 1-16 (canceled).

17. (new) A purified recombinant DNA of human immunodeficiency virus type 1 (HIV-1), wherein the DNA comprises the sequence:

| | | | | |
|------------|-------------|-------------|------------|------------|
| 8570 | 8580 | 8590 | 8600 | 8610 |
| GGGGGACTGG | AAGGGCTAAT | TCACTCCCAA | CGAAGACAAG | ATATCCTTGA |
| 8620 | 8630 | 8640 | 8650 | 8660 |
| TCTGTGGATC | TACCACACAC | AAGGCTACTT | CCCTGATTGG | CAGAACTACA |
| 8670 | 8680 | 8690 | 8700 | 8710 |
| CACCAGGGCC | AGGGGTCAGA | TATCCACTGA | CCTTTGGATG | GTGCTACAAG |
| 8720 | 8730 | 8740 | 8750 | 8760 |
| CTAGTACCAG | TTGAGCCAGA | TAAGGTAGAA | GAGGCCAATA | AAGGAGAGAA |
| 8770 | 8780 | 8790 | 8800 | 8810 |
| CACCAGCTTG | TTACACCCTG | TGAGCCTGCA | TGGAATGGAT | GACCCTGAGA |
| 8820 | 8830 | 8840 | 8850 | 8860 |
| GAGAAGTGTT | AGAGTGGAGG | TTTGACAGCC | GCCTAGCATT | TCATCACGTG |
| 8870 | 8880 | 8890 | 8900 | 8910 |
| GCCCGAGAGC | TGCATCCGGA | GTA CTTCAAG | AACTGCTGAC | ATCGAGCTTG |
| 8920 | 8930 | 8940 | 8950 | 8960 |
| CTACAAGGGA | CTTTC CGCTG | GGGACTTTCC | AGGGAGGCGT | GGCCTGGGCG |
| 8970 | 8980 | 8990 | 9000 | 9010 |
| GAACTGGGGA | GTGGCGAGCC | CTCAGATGCT | GCATATAAGC | AGCTGCTTTT |
| 9020 | 9030 | 9040 | 9050 | 9060 |
| TGCCTGTACT | GGGTCTCTCT | GGTTAGACCA | GATTTGAGCC | TGGGAGCTCT |
| 9070 | 9080 | 9090 | 9097 | 10 |
| CTGGCTAACT | AGGGAACCCA | CTGCTTAAGC | CTCAATA | AAGCTTGCCT |
| 20 | 30 | 40 | 50 | 60 |
| TGAGTGCTTC | AAGTAGTGTG | TGCCCCGTCTG | TTGTGTGACT | CTGGTAACTA |

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|------------|------------|------------|------------|------------|
| 70 | 80 | 90 | 100 | 110 |
| GAGATCCCTC | AGACCCTTTT | AGTCAGTGTG | GAAAATCTCT | AGCAGTGGCG |
| 120 | 130 | 140 | 150 | 159 |
| CCCGAACAGG | GACTTGAAAG | CGAAAGGGAA | ACCAGAGGAG | CTCTCTCGA |

18. (new) The purified recombinant DNA of claim 17, wherein said nucleic acid is labeled with a label selected from the group consisting of a radioisotope, an enzyme, a fluorescent label, and a chromophore label.

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